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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/607,864	06/30/2000	Andrew Bencich Woodside	24760A	9951
7590 09/22/2004			EXAMINER	
John A. Molna Parker-Hannifir			FERGUSON, LAWRENCE D	
6035 Parkland Boulevard			ART UNIT	PAPER NUMBER
Cleveland, OH 44124-4141			1774	

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	09/607,864	WOODSIDE ET AL.			
omet Action Gammary	Examiner	Art Unit			
The MANUAC DATE of this commit to	Lawrence D. Ferguson	1774			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with t	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statue Any reply received by the Office later than three months after the mail - earned patent term adjustment. See 37 CFR 1.704(b).	J. 1.136(a). In no event, however, may a reply peply within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS the cause the application to become ARANIC	be timely filed O) days will be considered timely. From the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on 20	luno 2004				
- · · ·					
_	2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		, , , , , , , , , , , , , , , , , , , ,			
4) ☐ Claim(s) 15-17,23-27 and 31-41 is/are pending 4a) Of the above claim(s) is/are withdress 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 15-17,23-27 and 31-41 is/are rejected for the claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration. ed.				
Application Papers					
9) ☐ The specification is objected to by the Examin 10) ☐ The drawing(s) filed on 30 June 2000 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	a)⊠ accepted or b)⊡ objected e drawing(s) be held in abeyance. etion is required if the drawing(s) is	See 37 CFR 1.85(a).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applic prity documents have been rece u (PCT Rule 17.2(a)).	cation No eived in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa	ary (PTO-413)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date al Patent Application (PTO-152)			

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DETAILED ACTION

Response to Request for Reconsideration

1. This action is in response to the amendment mailed June 20, 2004. Claim 15 was amended, claims 18-22 were cancelled and claims 31-41 were added rendering claims 15-17, 23-27 and 31-41 pending.

Claim Rejections - 35 USC § 103(a)

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 15-23 and 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kosuga et al. (U.S. 4,960,642).
- 4. Kosuga shows pellets for making electromagnetic wave shielding material comprising carbon conductive fibers (column 2, lines 26-27), an organic coating of a thermoplastic resin oligomer having a viscosity of not more than 10,000 centipoises when melted (column 1, lines 21-28 and claim 1), and a thermoplastic resin coating (polymer coating) (claim 1). Kosuga shows that the fibers have a length of 6mm (column 4, line 45). Kosuga further shows that the conductive fibers are bundled in groups of 1,000 to 10,000 (column 2, lines 30-23). The reference shows that the thermoplastic

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resin coating comprises acrylonitrile-butadiene-styrene copolymer (claim 3). Though Kosuga shows that the organic thermoplastic resin oligomer material has a viscosity of no more than 10,000 centipoises when melted (claim 1), Kosuga does not show that the pellets have a viscosity at temperatures of from 80 C-180 C as in instant claims 15 and 19-22. Kosuga uses the same organic thermoplastic resin oligomer materials as in Applicants' invention. Thus, it would have been obvious to one of ordinary skill in the art to use an organic material which has a viscosity of no greater than 1500 centipoises at temperature ranges of 80 C-180 C since it is known in the art that such oligomers would have those viscosities.

Claim Rejections – 35 USC § 103(a)

- 5. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kosuga et al (U.S. 4,960,642) in view of Kobayashi et al (U.S. 4,356,228).
- 6. Kosuga is relied upon for claims 15-23 and 25-27. Kosuga shows that the organic thermoplastic resin oligomers used to coat the conductive carbon fibers include polyester resins and ethylene-ethylacrylate resins (claims 2-4). Kosuga does not show that the organic thermoplastic resin oligomers are comprised of those listed in instant claim 24.

Kobayashi teaches a fiber-reinforced moldable sheet comprising a thermoplastic resin and reinforcing agents of carbon fibers incorporated into the thermoplastic resin (Abstract). Kobayashi teaches that the thermoplastic resins used include polyesters

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(column 3, lines 64-68), poly(bisphenol A carbonate), polysulfones, styrene resins, and acrylic resins (column 4, lines 1-4). Kosuga and Kobayashi are analogous art because they are both from the field of carbon fiber material. It would have been obvious to one of ordinary skill in the art to use bisphenol A resin in the organic thermoplastic resin oligomer coating of Kosuga because bisphenol A, polyester, and acrylic resins are thermoplastic resinous materials used in order to obtain an impregnated product (column 4, lines 1-23).

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Iwaskow et al (U.S. 4,882,089) teaches pellets molded into a conductive article (column 9, lines 15-25) having a conductive core (column 2, lines 67-68) and conductive fibers (column 4, lines 25-30). Iwaskow et al (U.S. 4,983,456) also teaches pellets molded into a conductive article (column 9, lines 15-25) having a conductive core (column 2, lines 67-68) and conductive fibers (column 4, lines 25-30). Last, Iwaskow et al. (U.S. 4,752,415) teaches pellets molded into a conductive article (column 9, lines 15-25) having a conductive core (column 2, lines 67-68) and conductive fibers (column 4, lines 25-30)

Response to Arguments

8. Rejection made under 35 U.S.C. 112, first paragraph, is withdrawn due to Applicant removing language, '...being selected to be impregnable into said core without substantial pressurization' which was not supported by the specification.

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Applicant's failed to provide arguments in regard to rejection made under 35 USC 103(a) as being unpatentable over Kosuga et al (U.S. 4,960,642) therefore the rejection is maintained for reasons of record. Applicant's failed to provide arguments in regard to rejection made under 35 USC 103(a) as being unpatentable over Kosuga et al (U.S. 4,960,642) in view of Kobayashi et al (U.S. 4,356,228) therefore the rejection is maintained for reasons of record.

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Ferguson whose telephone number is 571-272-1522. The examiner can normally be reached on Monday through Friday 9:00 AM – 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye, can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence Ferguson Patent Examiner

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RENA DYE
SUPERVISORY PATENT EXAMINER

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